highly unsaturated fatty acid under conditions comprising:

(2 i) salinity levels less than salinity levels found in seawater; and

PZ ii) a temperature of at least about 15°C;

(b) food material.

- 58. (Twice Amended) A food product, produced by the process comprising:
- a) (a source of omega-3 highly unsaturated fatty acids selected from the group consisting of microorganisms from the order Thraustochytriales, omega-3 highly unsaturated fatty acids extracted from said microorganisms, and mixtures thereof; and
 - b) food material,

wherein said] culturing microorganisms selected from the group consisting of microorganisms of the genus Thraustochytrium, microorganisms of the genus Schizochytrium and mixtures thereof [have been cultured] in a medium comprising a sodium concentration less than about 6.58 g/l; and

b) mixing said microorganisms or omega-3 highly unsaturated fatty acid extracted from said microorganisms with a food material.

(Once Amended) A food product, as claimed in Claim 1, wherein said microorganisms are selected from the group consisting of:

(i) Schizochytrium having the identifying characteristics of ATCC Accession No. 20888 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid:

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(ii) Schizochytrium having the identifying characteristics of ATCC Accession No. 20889 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid:

(iii) Thraustochytrium having the identifying characteristics of ATCC Accession No. 20890 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid;

(iv) Thraustochytrium having the identifying characteristics of ATCC Accession No. 20891 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid; and

(v) Thraustochytrium having the identifying characteristics of ATCC Accession No. 20892 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid.

67. (Once Amended) A food product, as claimed in Claim 58, wherein said microorganisms are selected from the group consisting of:

(i) Schizochytrium having the identifying characteristics of ATCC Accession No. 20888 and mutant strains derived therefrom wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid:

(ii) Schizochytrium having the identifying characteristics of ATCC Accession No. 20889 and mutant strains derived therefrom wherein, said mutant strains

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derived therefrom are capable of producing omega-3 highly unsaturated fatty acid:

(iii) Thraustochvtrium having the identifying characteristics of ATCC Accession No. 20890 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid:

(iv) Thraustochytrium having the identifying characteristics of ATCC Accession No. 20891 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are carable of producing omega-3 highly unsaturated fatty acid; and

(v) Thraustochytrium having the identifying characteristics of ATCC Accession No. 20892 and mutant strains derived therefrom wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid.

Please add the following new claims 68-72.

- 68. A food product, as claimed in Claim 1, wherein said microorganisms are capable of effectively producing omega-3 highly unsaturated fatty acid at a temperature of at least about 25°C.
- 69. A food product, as claimed in Claim 1, wherein said microorganisms are capable of effectively producing omega-3 highly unsaturated fatty acid at a temperature of at least about 30°C.
- 70. A food product, as claimed in Claim 58, wherein said microorganisms are cultured at a temperature of at least about 25°C.
- 71. A food product, as claimed in Claim 58, wherein said microorganisms are cultured at a temperature of at least about 30°C.

72. A food product comprising:

- microorganisms selected from the consisting of:
- Schizochytrium having the identifying (i) characteristics of ATCC Accession No. 20888 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid.
- (ii) Schizochytrium having the identifying characteristics of ATCC Accession No. 20889 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid,

(iii) Thraustochytrium having the identifying characteristics of ATCC Accession No. 20890 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are c apable of producing omega-3 highly unsaturated fatty acid,

- (iv) Thraustochytrium having the identifying characteristics of ATCC Accession No. 20891 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 highly unsaturated fatty acid, and
- Thraustochytrium having the identifying characteristics of ATCC Accession No. 20892 and mutant strains derived therefrom, wherein, said mutant strains derived therefrom are capable of producing omega-3 fatty acid: and
 - (b) food material.

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